



Y OF PAPERS  
INITIALLY FILED

APPENDIX A  
"CLEAN" VERSION OF EACH PARAGRAPH/SECTION/CLAIM  
37 C.F.R. § 1.121(b)(ii) AND (c)(i)

CLAIMS (with indication of amended or new):

NEW 25. A spray head for a spray gun, comprising:

a central body with a space therein; the central body having a lateral side and a lateral aperture passing through the lateral side; the central body having a top side, at least one inner abutment located in the lateral aperture at the top of the central body;

a rotary element which is placeable in the space of the central body by passing the rotary element through the lateral aperture of the central body;

a seal in the central body below the rotary element for sealing the rotary element leak-tight in the central body;

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the rotary element having a circular shaped central part and the central part is introduced into the space in the central body, a nozzle with an exit from the central part of the rotary element;

the lateral aperture being shaped such that with the central part of the rotary element in the space in the central body, upward translational movement of the central part brings the central part into a working position against the inner abutment at the top side of the central body, the central part of the rotary element being so shaped and the nozzle being so placed on the central part of the rotary element that the nozzle has a working position with the central part of the rotary element abutting the inner abutment of the central body and that the nozzle in the working position is above the top side of the central body.

NEW 26. The spray head of claim 25, further comprising a first lateral shoulder from the central part of the rotary element which cooperates with the inner abutment of the central body as the rotary element is moved toward the top of the central body.

NEW 27. The spray head of claim 26, wherein the first lateral shoulder of the rotary element comprises a spindle projecting from the central part;

the lateral aperture in the central body includes a groove shaped prolongation extending toward the top of the central body such that after the rotary element is introduced into the space of the central body, the spindle of the rotary element is displaceable up through the groove shaped prolongation of the lateral aperture toward the top side of the central body until the first shoulder on the spindle bears against the inner abutment at the top of the central body.

NEW 28. The spray head of claim 27, further comprising a second lateral shoulder of the central part opposite the first shoulder thereof, the second shoulder comprising a second spindle; a second lateral aperture in the opposite side of the central body from the lateral aperture and the second spindle being received in the second lateral aperture.

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NEW 29. The spray head of claim 25, wherein the central body has a bore leading to the space which receives the rotary element; and a seal for leak tightness being received in the bore of the central body and bearing against the central part of the rotary element.

NEW 30. The spray head of claim 29, wherein the circular central part of the rotary element has the shape of a ball that cooperates with the seal.

NEW 31. The spray head of claim 30, wherein the seal includes an indentation facing toward and cooperating with the ball shaped central part of the rotary element and the indentation has edges along which the central part of the rotary element rests.

NEW 32. The spray head of claim 29, wherein the circular central part of the rotary element has the form of a cylinder which engages the seal in the central body.

NEW 33. The spray head of claim 25, further comprising the nozzle having an outlet slit; a plurality of ducts passing through the central body for passing air flow, the ducts being located on either side of the nozzle and being directed toward the slit of the nozzle for allowing an air stream for setting the opening angle of the fluid emerging through the nozzle slit.

NEW 34. The spray head of claim 25, further comprising two diametrically opposed stubs toward the top side of the central body;

two complementary ducts in the central body prolonged within the stubs, each of the ducts and the stubs having a respective outlet orifice for directing an air stream substantially perpendicularly to the slit of the nozzle and against a pressurized fluid taper emerging from the nozzle wherein the air stream is adapted for causing atomization of the fluid taper.

NEW 35. The spray head of claim 34, further comprising each of the ducts having a base, a threaded opening at the base of each duct for receiving a hollow screw with a bore diameter therethrough selected for controlling air flow therethrough.

NEW 36. The spray head of claim 34, further comprising a plurality of the ducts passing through the central body for air flow, the ducts being located on either side of the nozzle and being directed toward the outlet slit of the nozzle for allowing an air stream for setting the opening angle of the fluid emerging through the nozzle slit.

NEW 37. The spray head of claim 25, further comprising two separated rims in the central body; the rotary element including an abutting element which abuts one or the other of the rims, the rims being so placed in the central body that with the abutment abutting one or the other rim, the rotary element is positioned selectively in a working position at which the nozzle outlets out of the top side of the central body and a cleaning configuration at which the nozzle is positioned to be cleaned.

NEW 38. The spray head of claim 24, further comprising a handle connected to the rotary element for rotating the rotary element between the working position with the nozzle outlet directed out of the top of the central body and a cleaning position where the nozzle is exposed in the central body for cleaning.

NEW 39. The spray head of claim 25, wherein the rotary element is made from steel, stainless steel or chrome steel.

NEW 40. The spray head of claim 25, wherein the nozzle in the rotary element is made from a hard metal.

NEW 41. The spray head of claim 40, wherein the nozzle in the rotary element is made from tungsten carbide.

NEW 42. The spray head of claim 25, wherein the rotary element includes an O-ring seal connecting the outlet nozzle located in the rotary element to a clamping screw located in the rotary element.

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NEW 43. The spray head of claim 25, wherein the central body is comprised of anodized aluminum, steel or a synthetic material reinforced with carbon fiber.

NEW 44. The spray head of claim 31, wherein the seal in the central body is comprised of stainless steel or a reinforced composite material.

NEW 45. The spray head of claim 25, further comprising a further seal connecting the seal which passes through the central body to a spray gun to which the spray head is connected.

NEW 46. The spray head of claim 45, further comprising an O-ring in the seal in the central body for leak tightness of the seal with respect to the central body.

NEW 47. The spray head of claim 25, wherein the lateral aperture is so shaped, the rotary element is so shaped, and the nozzle is so placed on the rotary element that when the nozzle is positioned with the circular central part in the working position, the nozzle is located at a distance of 1 mm to 5 mm above the top of the central body.

NEW 48. The spray head of claim 34, wherein the outlet orifices of the two stubs are oriented to direct additional atomizing air at an angle of 0° to 20° in relation to the axis of the spray head through the nozzle.

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**NEW 49.** The spray head of claim 33, wherein the ducts have respective outlet orifices oriented to direct additional air at an angle of  $45^{\circ}$  to  $60^{\circ}$  in relation to an axis of the spray head through the nozzle for directing additional air to close and open the angle of the fluid taper through the nozzle.

**NEW 50.** The spray head of claim 34, wherein the lateral aperture is so placed that the rotary element is introduced into the head along an axis perpendicular to the line connecting the stubs which are at the top side of the central body and the nozzle including an outlet a slit that is perpendicular to the line.

**NEW 51.** The rotary element of claim 34, wherein the lateral aperture is so placed that the rotary element is introduced to the head along an axis of  $45^{\circ}$  in relation to the line connecting the stubs at the top side of the central body, and the nozzle includes a slit outlet which forms an angle perpendicular to the line.

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